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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/680,824
Filing Date	10/07/2003
First Named Inventor	
Group Art Unit	1638
Examiner Name	TBA
Total Number of Pages in This Submission: 6	Attorney Docket Number: 70149USNP

ENCLOSURES *(check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment / Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☑ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Assignment Papers *(for an Application)*
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*
- ☐ Proprietary Information
- ☐ Status Letter
- ☑ Other Enclosure(s) *(please identify below)*:

postcard receipt; PTO Form 1449;

39 reference documents

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Mary Kakefuda, Attorney for Applicants, Registration No. 39,245
Signature	Mary Kakefuda
Date	9/17/04

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313 on this date: Sept 17, 2004

Typed or printed name	Susan D. Holder		
Signature	Susan D. Holder	Date	September 17, 2004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	
Boudreau et al.	Art Unit: 1638
Serial. No. 10/680,824	Examiner: TBA
Filed: October 7, 2003	Atty Docket: 70149USNP
For: PLASTID TRANSFORMATIONS	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §1.56, Applicants wish to call the Examiner's attention to the references cited on the attached Form PTO-1449. Copies of references AF-BR are enclosed herewith. The submission of these references is made solely for the purpose of complying with Applicant's duty of disclosure, and is not intended as a surrender of patentable subject matter nor is it intended to create prosecution history estoppel.

The Examiner is requested to consider the foregoing information in relation to this application and to indicate that each reference was considered by returning a copy of the initialed PTO 1449 forms.

In accordance with 37 CFR §1.97(b)(3), no fee is believed to be required for consideration of this statement because it is being submitted before the mailing date of a first Office Action on the merits.

Respectfully submitted,

Mary Kakefuda

Mary Kakefuda
Attorney for Applicant
Registration No. 39,245

Syngenta Biotechnology, Inc.
P. O. Box 12257
Research Triangle Park, NC 27709-2257
Telephone: 919-765-5071
Date:

FORM PTO-1449 (REV. 7-85) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

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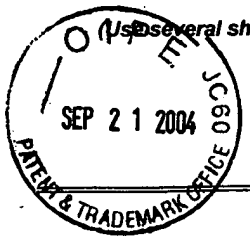

ATTY. DOCKET NO. 70149USNP
APPLICATION NO. 10/680,824
APPLICANT Boudreau et al
FILING DATE: October 7, 2003
Confirmation No. 5374
Group 1638

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	2002/0073443	6/13/2002	Heifetz et al	800/278		12/6/2000
	AB	2002/0042934	04/11/2002	Staub et al.	800/300	300	4/25/2001
	AC	5,451,513	9/19/1995	Maliga et al	800/278	435/320.1	8/25/1993
	AD	6,084,155	6/4/2000	Volrath et al	800/300	435/320.1	6/22/1998
	AE	6,362,398	3/26/2002	Heifetz et al	800/298	435/320.1	3/10/1999

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	AF	WO 97/32977	12/09/1997	WIPO	C12N 15/00	C12N 15/63	☐	☐
	AG	WO 00/20612	4/13/2000	WIPO	C12N 15/82	C07K 14/415	☐	☐
	AH	WO 00/39313	7/6/2000	WIPO	C12N 15/82		☐	☐
	AI	WO 03/054189	7/3/2003	WIPO	C12N 15/00		☐	☐
	AJ	WO 03/054201	7/3/2003	WIPO	C12N 15/82		☐	☐
	AK	WO 03/060137	7/24/2003	WIPO	C12N 15/82		☐	☐

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AL	Bock, R., *Transgenic Plastids in Basic Research and Plant Biotechnology* *Journal of Molecular Biology*, Vol. 312 (2001), pp. 425-438.
	AM	Bogorad, L., *Engineering chloroplasts: an alternative site for foreign genes, proteins, reactions and products* *Trends in Biotechnology*, Vol. 18 (2000), pp. 257-263.
	AN	Boudreau et al., *A large open reading frame (orf1995) in the chloroplast DNA of Chlamydomonas reinhardtii encodes an essential protein* Molecular and General Genetics, Vol. 253 (1997), pp. 649-53
	AO	Boynton et al., *Chloroplast transformation in Chlamydomonas with high velocity microprojectiles* *Science*, Vol. 240 (1988), pp. 1534-1537
	AP	Carrer et al., *Targeted insertion of foreign genes into the tobacco plastid genome without physical linkage to the selectable marker gene* *Biotechnology*, Vol. 13 (1995) pp. 791-794

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

FORM PTO-1449 (REV. 7-85) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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	AQ	Carrer et al., *Kanamycin resistance as a selectable marker for plastid transformation in tobacco* *Molecular and General Genetics* Vol. 241 (1993), pp. 49-56.
	AR	Corneille et al., *Efficient elimination of selectable marker genes from the plastid genome by the CRE-lox site-specific recombination system* *The Plant Journal,* Vol. 27 (2001) pp. 171-179
	AS	Daniell et al., *Containment of herbicide resistance through genetic engineering of the chloroplast genome* *Nature Biotechnology*, Vol. 16 (1998) pp. 345-348.
	AT	Daniell et al., *Marker free transgenic plants: engineering the chloroplast genome without the use of antibiotic selection* *Current Genetics*, Vol. 39 (2001) pp. 109-116
	AU	Doetsch et al., *Chloroplast transformation in Euglena gracilis: slicing of a group III twintron transcribed from a transgenic psbK operon* *Current Genetics*, Vol. 39 (2001) pp. 49-60
	AV	Drescher et al., *The two largest chloroplast genome-encoded open reading frames of higher plants are essential genes* *Plant Journal*, Vol. 22 (2000) pp. 97-104
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	AX	Hajdukiewicz et al., *Multiple pathways for Cre/lox-mediated recombination in plastics* *The Plant Journal,* Vol. 27 (2001) pp. 161-170.
	AY	Heifetz, P.B., *Genetic engineering of the chloroplast* *Biochimie*, Vol. 82 (2000) pp. 655-666
	AZ	Hou et al., *Chloroplast transformation in oilseed rape* *Transgenic Research*, Vol. 12 (2003), pp. 111-114
	BA	Huang et al., *The Chlamydomonas chloroplast clpP gene contains translated large insertion sequences and is essential for cell growth* *Molecular and General Genetics*, Vol. 244 (1994) pp. 151-9
	BB	Iamtham and Day, *Removal of antibiotic resistance genes from transgenic tobacco plastids* *Nature Biotechnology*, Vol. 18 (2000), pp. 1172-1176.
	BC	Knoblauch et al., *A galinstan expansion femtosyringe for microinjection of eukaryotic organelles and prokaryotes* *Nature Biotechnology,* Vol. 17 (1999), pp. 906-909.
	BD	Kofer et al., *PEG-mediated plastid transformation in higher plants* *In Vitro Cellular and Developmental Biology – Plant,* Vol. 34 (1998), pp. 303-309

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	BE	Koop et al., *Integration of foreign sequences into the tobacco plastome via polyethylene glycol-mediated protoplast transformation* *Planta,* Vol. 199 (1996), pp. 193-201
	BF	Lapidot et al., *Stable chloroplast transformation of the unicellular red alga Porphyridium species* *Plant Physiology*, Vol. 129 (2002), pp. 7-12
	BG	Lutz et al., *Expression of bar in the Plastid Genome Confers Herbicide Resistance* *Plant Physiology*, Vol. 125 (2001), pp. 1585-1590
	BH	O'Neill et al., *Chloroplast transformation in plants: polyethylene glycol (PEG) treatment of protoplasts is an alternative to biolistic delivery systems* *Plant Journal,* Vol. 3 (1993), pp. 729-738
	BI	Ruf et al.,*Stable genetic transformation of tomato plastids and expression of a foreign protein in fruit* *Nature Biotechnology*, Vol. 19 (2001) pp. 870-875
	BJ	Shikanai et al., *The chloroplast clpP gene, encoding a proteolytic subunit of ATP-dependent protease, is indispensable for chloroplast development in tobacco* *Plant Cell Physiology*, Vol. 42 (2001), pp. 264-73
	BK	Sidorov et al., *Stable chloroplast transformation in potato: use of green fluorescent protein as a plastid marker* *The Plant Journal,* Vol. 19(2) (1999), pp. 209-216
	BL	Sikdar et al., *Plastid transformation in Arabidopsis thaliana* *Plant Cell Reports,* Vol. 18 (1991), pp. 20-24
	BM	Skarjinskaia et al., *Plastid Transformation in Lesquerella Fendleri, an Oilseed Brassicacea* *Transgenic Research*, Vol. 12 (2003), pp. 115-122
	BN	Staub, J. and Maliga, P., *Long Regions of Homologous DNA Are Incorporated into the Tobacco Plastid Genome by Transformation* *The Plant Cell,* Vol. 4 (January 1992), pp. 39-45
	BO	Svab, et al, *High-frequency plastid transformation in tobacco by selection for chimeric aadA gene* *Proceedings of the National Academy of Science*, USA, Vol. 90 (1993), pp. 913-17
	BP	Svab et al., *Stable Transformation of Plastids in Higher Plants* *Proceedings of the National Academy of Science, USA*, Vol. 87 (1990) pp. 8526-8530
	BQ	Ye et al., *Persistence of Unselected Transgenic DNA during a Plastid Transformation and Segregation Approach to Herbicide Resistance* *Plant Physiology*, Vol. 133 (2003), pp. 402-410
	BR	Ye et al., *Plastid-expressed 5-enolpyruvylshikimate-3-phosphate synthase genes provide high level glyphosate tolerance in tobacco* *The Plant Journal*, Vol. 25(3) (2001), pp. 261-270

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